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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,603	12/29/2003	Richard Doil Lane	030068	8659
	7590 07/24/200 INCORPORATED	9	EXAMINER	
5775 MOREHO	OUSE DR.		NGUYEN, TU X	
SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER
			2618	
			NOTIFICATION DATE	DELIVERY MODE
			07/24/2009	ELECTRONIC

### Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)			
Office Action Comments	10/748,603	LANE ET AL.			
Office Action Summary	Examiner	Art Unit			
	TU X. NGUYEN	2618			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on					
•	-· action is non-final.				
<i>,</i> —	· · · · · · · · · · · · · · · · · · ·				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
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Disposition of Claims					
<ul> <li>4) ☐ Claim(s) 1,3-7,9-19,21-23,25-27,29-32,34,36-41 and 43-53 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5) ☐ Claim(s) is/are allowed.</li> <li>6) ☐ Claim(s) 1,3-7,9-19,21-23,25-27,29-32,34,36-41 and 43-53 is/are rejected.</li> <li>7) ☐ Claim(s) is/are objected to.</li> <li>8) ☐ Claim(s) are subject to restriction and/or election requirement.</li> </ul>					
Application Papers					
<ul> <li>9)  The specification is objected to by the Examiner.</li> <li>10)  The drawing(s) filed on 12/29/03 is/are: a)  accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal Pa	te			

#### **DETAILED ACTION**

### Response to Arguments

Applicant's arguments with respect to claims 1, 17, 34 and 47 have been considered but are most in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7, 9-11, 13-19, 21-23, 25-27, 29-32, 34, 36-41, 43 and 45-53, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (US Pub. 2003/0078061) in view of Akiyama (US Pub. 2002/001386).

Regarding claim 1, Kim discloses a communication system, comprising:

at least a broadcast center wirelessly broadcasting at least one multimedia stream (see abstract, par.034, "broadcasting data" corresponds to "multimedia stream"); and at least one wireless receiver receiving the stream over a wireless broadcast link, wherein the broadcast link is characterized by a first wireless principle; and (see par.0011, 013), a second receiver being provided with control data associated with the multimedia stream over a bidirectional wireless link (see par.0033, "broadcasting traffic" corresponds to "multimedia stream", "bidirectional channel SSCH" corresponds to "bidirectional link), wherein the bidirectional wireless

link is characterized by a second wireless principle and wherein the wireless broadcast link and the bidirectional wireless link are separate physical channels (see par.0046-048), wherein services are ordered (par.033) over the bidirectional link and the first and second wireless principles are different from each other.

Kim fails to disclose the first wireless receiver and the second receiver are both part of the same receiving device.

Akiyama disclose the first wireless receiver and the second receiver are both part of the same receiving device (par.019). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Kim with the above teaching of Akiyama in order to provide a second receiver to receive broadcast channel.

Regarding claims 3, 22 and 36, the modified Kim discloses the broadcast link is unidirectional (Kim, par.0033) and wherein the first wireless principle is selected from the group consisting of: OFDM principles (Kim, par.0035), CDMA, GSM, WCDMA, TDMA and TD-SCDMA principle.

Regarding claims 4, 23 and 37, the modified Kim discloses the second wireless principle is selected from the group consisting of a CDMA link, a GSM link (Kim, par.053, GSM network support TDMA), a 802.11 link, a satellite link, and a Bluetooth link.

Regarding claims 5 and 38, the modified Kim discloses the bidirectional wireless link is a point-to-point wireless communication link (Kim, par.0033).

Regarding claim 6, the modified Kim discloses the first wireless receiver and the second receiver are associated with receiver is a mobile communication device having at least one display for displaying the multimedia data (Kim, par.019).

Regarding claims 7 and 25, the modified Kim discloses the first wireless receiver and the second receiver are associated with at least one speaker for presentation of multimedia audio data (Kim, element 124, fig.4).

Regarding claims 9-10, the modified Kim discloses products are ordered over the bidirectional link (Kim, par.019, "video signal" reads on "product").

Regarding claims 11, 30, 43 and 48, the modified Kim discloses least one digital broadcast multimedia (DBM) controller useful at least for encrypting, encoding and/or aggregating the multimedia stream (Kim, par.0035-036, 0046, "controller" is inherently included in the system).

Regarding claims 13, 32 and 45, the modified Kim discloses control data includes data useful for indexing into the multimedia stream for channel selection and tracking (Kim, par.0046).

Regarding claim 14, the modified Kim discloses at least one network control center communicating with the DBM controller at least for receiving keys therefrom, the network control center communicating with second receiver over the bidirectional wireless link (Kim, par.0034, 0038).

Regarding claims 15 and 41, the modified Kim discloses at least one NCC controller associated with the network control center at least for providing to receivers applications related to playing multimedia streams (Kim, par.0035).

Regarding claim 16, the modified Kim discloses at least one network operations controller (NOC) associated with the broadcast network operations center at least for providing to receivers applications related to playing multimedia streams through a bidirectional wireless link (Kim, par.0035, 0037-0038).

Regarding claims 17, 34 and 47, Kim discloses a method for providing a multimedia stream to a wireless communication device, comprising: broadcasting, the multimedia stream over a wireless broadcast link to a first receiver, wherein the broadcast link is characterized by a first wireless principle; and transmitting, over a bidirectional wireless link to a second receiver, control data necessary for displaying the multimedia, stream on the device, wherein the bidirectional wireless link is characterized, by a second wireless principle, and wherein the wireless broadcast link and the bidirectional wireless link are separate physical channels (par.011-013, 046-048).

Kim fails to disclose the first wireless receiver and the second receiver are both part of the same receiving device.

Akiyama disclose the first wireless receiver and the second receiver are both part of the same receiving device (par.019). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Kim with the above teaching of Akiyama in order to provide a second receiver to receive broadcast channel.

Regarding claims 18-19, the modified Kim discloses at least some control data is transmitted/received to the wireless device (Kim, par.033).

Regarding claim 21, the modified Kim discloses the broadcast link is unidirectional (Kim par.033).

Regarding claims 26, 39 and 40, the modified Kim discloses the control data includes at least one of: at least one key useful in decrypting the multimedia stream (Kim, par.0042), data associated with a subscription to a multimedia broadcast service (Kim, par.0037), data associated with a registration on a multimedia broadcast network, at least one application useful in decoding the multimedia data, billing information, data related to user preferences, and data related to levels of service related to providing the multimedia stream.

Regarding claim 27, the modified Kim discloses the control data includes data associated with a subscription to a multimedia broadcast service (Kim par.0035).

Regarding claim 29, the modified Kim discloses the control data includes data related to levels of service related to providing the multimedia stream (Kim par.009).

Regarding claim 46, the modified Kim discloses at least one of services, and products, can be ordered over the bidirectional link (Kim, par.033, protocol agreement).

Regarding claims 51-53, the modified Kim to discloses control data associated with at least one key useful in decrypting the multimedia stream (see abstract), application useful in decoding the multimedia data (see par.044). However, Kim fails to includes billing information, data related to user preferences, data associated with a registration on a multimedia broadcast network, and data related to levels of service related to providing the multimedia stream. The examiner takes an official notice the concept that the control signal provides one of variety information are well know in the art, it would have obvious the control signals which provide useful information to the user whereat the information may be billing information, level of services, etc.

Claims 12, 31 and 44, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim in view of Akiyama and further in view of McClellan (US Pub. 2004/008794).

Regarding claims 12, 31 and 44, Kim discloses decompressing (Kim, par.007) and decoding (Akiyama, par.0121). However Kim fails to disclose de-interleaving the multimedia stream.

McClellan discloses de-interleaving and decoding the multimedia stream (see par.0052, 0054). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Kim with the above teaching of the McClellan in order to provide advantage for the processing modules may operate at a lower speed, or may operate at the highest speed possible and operate in parallel to achieve higher overall transceiver operation.

# Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed Tu Nguyen whose telephone number is 571-272-7883.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system,

Application/Control Number: 10/748,603 Page 8

Art Unit: 2618

see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Tu X Nguyen/

Primary Examiner, Art Unit 2618

7/15/09